

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:09:14 : Search time 165.17 Seconds
(without alignments)
34.297 Million cell updates/sec

Title: US-09-052-089A-5
Perfect score: 286
Sequence: 1 RALCTICSDFFHSDRVAA.....IQSFETAPSRRCPOCRIOVG 51

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues
Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: A.Geneseq_032802.*
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23: /SID55/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	268	93.7	469	19	AAW37881
2	268	93.7	469	20	AAW37881
3	114	39.9	225	22	AAE03224
4	114	39.9	225	22	AAE03224
5	114	39.9	225	22	AAE03224
6	114	39.9	225	22	AAE03224
7	114	39.9	225	22	AAE03224
8	114	39.9	225	22	AAE03224
9	114	39.9	225	22	AAE03224
10	114	39.9	225	22	AAE03224
11	114	39.9	225	22	AAE03224

12	103	36.0	348	21	AAE29288	Arabidopsis thalia
13	103	36.0	356	21	AAE29287	Arabidopsis thalia
14	103	36.0	358	21	AAE23046	Arabidopsis thalia
15	103	36.0	358	21	AAE51099	Arabidopsis thalia
16	98	34.3	39	21	AAE35608	Arabidopsis thalia
17	98	34.3	125	21	AAE35607	Arabidopsis thalia
18	98	34.3	291	21	AAE35607	Arabidopsis thalia
19	98	34.3	296	21	AAE35607	Arabidopsis thalia
20	98	34.3	296	21	AAE35607	Arabidopsis thalia
21	98	34.3	325	21	AAE35607	Arabidopsis thalia
22	98	34.3	325	21	AAE35607	Arabidopsis thalia
23	98	34.3	362	21	AAE35607	Arabidopsis thalia
24	98	34.3	362	21	AAE35607	Arabidopsis thalia
25	98	34.3	368	21	AAE35607	Arabidopsis thalia
26	98	34.3	410	21	AAE35607	Arabidopsis thalia
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34	96	33.6	405	22	AAE35607	Arabidopsis thalia
35	95.5	33.4	453	22	AAE35607	Arabidopsis thalia
36	95.5	33.4	504	22	AAE35607	Arabidopsis thalia
37	95	33.2	330	21	AAE35607	Arabidopsis thalia
38	95	33.2	339	21	AAE35607	Arabidopsis thalia
39	95	33.2	351	21	AAE35607	Arabidopsis thalia
40	94	32.9	51	22	AAE35607	Arabidopsis thalia
41	94	32.9	350	22	AAE35607	Arabidopsis thalia
42	93	32.5	551	18	AAE35607	Arabidopsis thalia
43	92	32.2	83	21	AAE35607	Arabidopsis thalia
44	92	32.2	93	21	AAE35607	Arabidopsis thalia
45	92	32.2	154	21	AAE35607	Arabidopsis thalia

ALIGNMENTS

RESULT 1	AAW37881	standard; Protein: 469 AA.
ID	AAW37881	
XX	AAW37881	
AC	AAW37881	
XX	28-AUG-1998	(first entry)
DE	BRCA1 modulator protein 091-21A31.	
DE	BRCA1 modulator protein: 091-21A31; breast cancer antigen 1;	
KW	tumour suppressor protein; diagnosis; therapy; human.	
XX		
OS	Homo sapiens.	
XX		
FT	Key	Location/Qualifiers
FT	Domain	3..54
FT	Domain	/note="zinc finger motif"
FT	Domain	229..255
XX		/note="leucine zipper motif"
XX	WC9810066-A1.	
PD	12-MAR-1998.	
XX		
PF	06-AUG-1997;	97WO-US13944.
XX		
PR	04-SEP-1996;	96US-0025601.
XX		
PA	(ONXX-) ONXX PHARM INC.	
XX		
PI	Ligenfelter C, Polakis P, Rubinfeld B, Vuong TT;	
XX		
DR	WPI, 1998-193616/17.	

DR N-PSDB; AAV29062.
XX Breast cancer antigen 1 modulator protein - useful for diagnosing
PT diseases involving unwanted cell growth, e.g. breast cancer, and for
PT producing therapeutics for treatment of such diseases
XX
XX Example 1; Fig 1; 73pp: English.
XX
CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that
CC binds to the tumour suppressor gene product BRCA1, and which is
CC characterised by a zinc finger domain and a leucine zipper motif.
CC Its amino acid sequence was deduced from the nucleotide sequence
CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),
CC isolated from a HeLa cell cDNA library using a yeast two-hybrid
CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1
CC modulator proteins (see AAV37881-83) have been characterised. Vectors
CC and host cells comprising the isolated nucleic acid sequences are
CC claimed, as well as a process for producing BRCA1 modulator protein
CC by culturing these host cells. BRCA1 modulator proteins and nucleic
CC acids can be used to diagnose diseases involving unwanted cell
CC growth, e.g. breast cancer, and to identify compounds that alter
CC BRCA1 interaction with BRCA1 modulators for the treatment of such
CC diseases.
XX
XX Sequence 469 AA;
SQ

Query Match 93.7%; Score 268; DB 19; Length 469;
Best Local Similarity 94.1%; Pred. No. 1.2e-25;
Matches 48; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RALCTICSDFFDHSRDVAMDCGHTFHLOCLIOSFETAPSRTPCPCRIQVG 51
Db 4 ralcticsdfhdhsrdvaahcghthfqlqclqyfetapscprcrlqvg 54

RESULT 2
AAV30149
ID AAV30149 standard; Protein: 469 AA.
XX
AC AAV30149;
XX
DT 27-OCT-1999 (first entry)
XX
DE Amino acid sequence of a BRCA1 modulator protein.
XX
KW Modulator protein; BRCA1; tumour suppressor protein; breast cancer;
KW ovarian cancer; cell growth; cell proliferation.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Region 3..32
FT /note="zinc finger motif"
FT Region 230..255
FT /note="leucine zipper motif"
XX
PN USS948643-A.
XX
PD 07-SEP-1999.
XX
PF 13-AUG-1997; 97US-0968751.
XX
PR 13-AUG-1997; 97US-0968751.
XX
PA (ONYX-) ONYX PHARM INC.
XX
PI Lingenfelter C, Polakis PG, Rubinfeld B, Vuong TT;
XX
DR WPI: 1999-517952/43.
DR N-PSDB; AAX86754.
XX
PT Modulator proteins that bind to and modulate the activity of the

PT BRCA1 tumour suppressor gene product, useful for the treatment of
PT ovarian and breast cancer
XX
XX Example 1; Fig 1; 35pp: English.
XX
CC The present sequence represents a modulator protein, that binds to and
CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
CC protein has been characterized as a tumour suppressor protein.
CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
CC cancers by removing the controls on cell growth and proliferation.
CC Research has shown that different regions on the BRCA1 molecule have
CC different effects on cell growth and tumour suppression (e.g. full length
CC truncated BRCA1 has no effect on breast cancer cell growth but will
CC inhibit ovarian cancer cell growth). It has been suggested that different
CC host cell factors (e.g. proteins) interact with different regions of the
CC BRCA1 to control its function. The identification of these proteins
CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
CC methods and new therapeutics for identifying and treating cancers caused
CC by changes in the expression or activity of BRCA1.
XX
XX Sequence 469 AA;
SQ

Query Match 93.7%; Score 268; DB 20; Length 469;
Best Local Similarity 94.1%; Pred. No. 1.2e-25;
Matches 48; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RALCTICSDFFDHSRDVAMDCGHTFHLOCLIOSFETAPSRTPCPCRIQVG 51
Db 4 ralcticsdfhdhsrdvaahcghthfqlqclqyfetapscprcrlqvg 54

RESULT 3
AAE03224
ID AAE03224 standard; Protein: 225 AA.
XX
AC AAE03224;
XX
DT 10-AUG-2001 (first entry)
XX
DE Human gene 5 encoded secreted protein HTLFI5, SEQ ID NO:74.
XX
KW Human; secreted protein; proliferative disorder; cancer; tumour; asthma;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
KW inflammation; neurological disorder; Alzheimer's disease; food additive;
KW angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;
KW pregnancy-related disorder; endocrine disorder; infection; wound healing;
KW cell culture; chemotaxis; vulnerrary; binding partner identification;
KW gene therapy.
XX
XX Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1
FT /label= Signal_peptide
FT Protein 2..225
FT /label= Mature_human_secreted_protein
FT Misc-difference 21
FT /label= Unknown
FT /note="Encoded by GNC on the inverse complementary
FT strand of the cDNA sequence (AAD07677)"
FT Misc-difference 45
FT /label= Unknown
FT /note="Encoded by TGM on the inverse complementary
FT strand of the cDNA sequence (AAD07677)"
XX
PN WO200134644-A1.
XX
PD 17-MAY-2001.
XX

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PF 08-NOV-2000; 2000WO-US30679.
XX 12-NOV-1999; 99US-0164834.
PR 04-AUG-2000; 2000US-0224007.
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Ruben SM, Komatsoulis GA, Olsen HS, Duan RD, Ebner R;
XX WPI: 2001-329070/34.
DR N-PSDB: AAD07657.
XX
XX Isolated nucleic acid molecule encoding a human secreted protein is
XX used in preventing, treating or ameliorating a medical condition -
XX
PS Claim 11; Page 450; 499pp; English.
XX
XX AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
XX protein genes, and AAE03202-AAE03242 represent the proteins they encode.
XX AAE03243-AAE03280 represent human secreted protein fragments or variants.
XX The secreted proteins and their genes are useful for preventing, treating
XX or ameliorating medical conditions, e.g., by protein or gene therapy.
XX Pathological conditions can be diagnosed by determining the amount of the
XX new protein in a sample or by determining the presence of mutations in
XX the new genes. Specific uses are described for each of the 15 genes,
XX based on the tissues in which they are most highly expressed, and include
XX developing products for the diagnosis or treatment of proliferative
XX disorders, cancer, tumours, foetal and developmental abnormalities,
XX hematopoietic disorders, diseases of the immune system, AIDS, autoimmune
XX diseases (e.g., rheumatoid arthritis), inflammation, allergies,
XX neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
XX cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
XX psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
XX angiogenic disorders, kidney disorders, gastrointestinal disorders,
XX pregnancy-related disorders, endocrine disorders, and infections. The
XX proteins can also be used to aid wound healing and epithelial cell
XX proliferation, to prevent skin aging due to sunburn, to maintain organs
XX before transplantation, for supporting cell culture of primary tissues,
XX to regenerate tissues, to identify their cognate ligands or binding
XX partners, and in chemotaxis, and can be used as a food additive or
XX preservative to modify storage properties. Antibodies specific for a
XX protein of the invention can be used in alleviating symptoms associated
XX with the disorders mentioned above, and in diagnostic immunoassays e.g.,
XX radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
XX The present sequence represents a human secreted protein of
XX the invention.
XX
SQ Sequence 225 AA;

Query Match 39.9%; Score 114; DB 22; Length 225;
Best Local Similarity 37.5%; Pred. No. 1.4e-06;
Matches 18; Conservative 9; Mismatches 21; Indels 0; Gaps 0;

QY 3 LCTTCSDFDHSRDVAAWDCGHTFLLOCLIOSFETAPSPRTGPOCRIOY 50
    |||||:::  |||||:::  |||||:::  |||||:::  |||||:::
Db 70 lcaicldyeegdqklilpcshyhcckldpwfsqaprtspcvokqsv 117

RESULT 4
AAE03206
ID AAE03206 standard; Protein; 359 AA.
XX
AC AAE03206;
XX
DT 10-AUG-2001 (first entry)
XX
DE Human gene 5 encoded secreted protein HTLJF15, SEQ ID NO:56.
XX
KW Human: secreted protein; proliferative disorder; cancer; tumour; asthma;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;

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KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
KW inflammation; neurological disorder; Alzheimer's disease; food additive;
KW angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;
KW pregnancy-related disorder; endocrine disorder; infection; wound healing;
KW cell culture; chemotaxis; vulnerrary; binding partner identification;
KW gene therapy.
XX
XX Homo sapiens.
XX
XX key Location/Qualifiers
XX Peptide 1..28
XX FT /label= signal_peptide
XX FT Protein 29..359
XX FT /label= Mature_human_secreted_protein
XX
XX W0200134644-A1.
XX
XX 17-MAY-2001.
XX
XX 08-NOV-2000; 2000WO-US30679.
XX
XX 12-NOV-1999; 99US-0164834.
XX 04-AUG-2000; 2000US-0224007.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Komatsoulis GA, Olsen HS, Duan RD, Ebner R;
XX WPI: 2001-329070/34.
XX DR N-PSDB: AAD07659.
XX
XX Isolated nucleic acid molecule encoding a human secreted protein is
XX used in preventing, treating or ameliorating a medical condition -
XX
PS Claim 11; Page 431-432; 499pp; English.
XX
XX AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
XX protein genes, and AAE03202-AAE03242 represent the proteins they encode.
XX AAE03243-AAE03280 represent human secreted protein fragments or variants.
XX The secreted proteins and their genes are useful for preventing, treating
XX or ameliorating medical conditions, e.g., by protein or gene therapy.
XX Pathological conditions can be diagnosed by determining the amount of the
XX new protein in a sample or by determining the presence of mutations in
XX the new genes. Specific uses are described for each of the 15 genes,
XX based on the tissues in which they are most highly expressed, and include
XX developing products for the diagnosis or treatment of proliferative
XX disorders, cancer, tumours, foetal and developmental abnormalities,
XX hematopoietic disorders, diseases of the immune system, AIDS, autoimmune
XX diseases (e.g., rheumatoid arthritis), inflammation, allergies,
XX neurological disorders, schizophrenia, asthma, skin disorders (e.g.,
XX psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
XX angiogenic disorders, kidney disorders, gastrointestinal disorders,
XX pregnancy-related disorders, endocrine disorders, and infections. The
XX proteins can also be used to aid wound healing and epithelial cell
XX proliferation, to prevent skin aging due to sunburn, to maintain organs
XX before transplantation, for supporting cell culture of primary tissues,
XX to regenerate tissues, to identify their cognate ligands or binding
XX partners, and in chemotaxis, and can be used as a food additive or
XX preservative to modify storage properties. Antibodies specific for a
XX protein of the invention can be used in alleviating symptoms associated
XX with the disorders mentioned above, and in diagnostic immunoassays e.g.,
XX radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
XX The present sequence represents a human secreted protein of
XX the invention.
XX
SQ Sequence 359 AA;

Query Match 39.9%; Score 114; DB 22; Length 359;
Best Local Similarity 37.5%; Pred. No. 2.3e-06;
Matches 18; Conservative 9; Mismatches 21; Indels 0; Gaps 0;

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XX 25-FEB-2000; 2000EP-0301439.
PF
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PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 23-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
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PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
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AC AAG29289;
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
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RESULT 12

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DT 17-OCT-2000 (first entry)

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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence.

XX Arabidopsis thaliana.

XX EPI033405-A2.

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PR 31-AUG-1999; 99US-0151338.
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PR 28-OCT-1999; 99US-0161993.
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Query Match 36.0%; Score 103; DB 21; Length 348;
Best Local Similarity 38.3%; Pred. No. 5; 4e-05;
Matches 18; Conservative 8; Mismatches 19; Indels 2; Gaps 1;
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Db 233 csicldfdkgyseakempckhthircipwlelhs--cpvcryel 277
RESULT 13
AACG29287
ID AACG29287 standard; Protein; 356 AA.
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AC AACG29287;
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DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 34820.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
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PR 09-AUG-1999; 99US-0147493.
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PR 17-AUG-1999; 99US-0149175.
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PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
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PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
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PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
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PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 36.08; Score 103; DB 21; Length 356;
Best Local Similarity 38.38; Pred. No. 5.5e-05;
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PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
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PR 27-AUG-1999; 99US-0151066.
PR 30-AUG-1999; 99US-0151080.
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PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
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PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
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PR 28-OCT-1999; 99US-0161982.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 36.0%; Score 103; DB 21; Length 358;
Best Local Similarity 38.3%; Pred. No. 5; Se-05;
Matches 18; Conservative 6; Mismatches 21; Indels 2; Gaps 1;

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RESULT 15
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ID AAG51099 standard; Protein: 358 AA.
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AC AAG51099;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 64820.
XX
KW Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EPI033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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PR 05-MAR-1999; 99US-0123160.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
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PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
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PR 28-MAY-1999; 99US-0136782.
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PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
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PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.

XX Protein identification: signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX EPI033405-A2.
PD
XX 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
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XX 18-OCT-2000 (first entry)

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KM Protein identification: signal transduction pathway: metabolic pathway;
KM hybridisation assay: genetic mapping; gene expression control; promoter;
KM termination sequence.

XX Arabidopsis thaliana.

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KM Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence.

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PR 20-AUG-1999; 99US-0149722.

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PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
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PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151338.
PR 01-SEP-1999; 99US-0151330.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
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PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
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Query Match 34.3%; Score 98; DB 21; Length 366;
Best Local Similarity 34.1%; Pred. No. 0.00024;
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RESULT 26
AAG44446
ID AAG44446 standard; Protein; 410 AA.
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AC AAG44446;
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DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 55678.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.

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PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
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PR 29-OCT-1999; 99US-0162142.

Query Match 34.3%; Score 98; DB 21; Length 410;
Best Local Similarity 34.1%; Pred. No. 0.00027;
Matches 15; Conservative 11; Mismatches 16; Indels 2; Gaps 1;

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RESULT 27

ABBS58678
ID ABBS58678 standard; Protein; 621 AA.

XX
AC ABBS58678;

XX
DT 26-MAR-2002 (first entry)

XX
DE Drosophila melanogaster polypeptide SRQ ID NO 2826.

XX
KW Drosophila; developmental biology; cell signalling; insecticide;
pharmaceutical.

XX

OS Drosophila melanogaster.
XX WO200171042-A2.
XX
PD 27-SEP-2001.
XX
PF 23-MAR-2001; 2001WO-US09231.
XX
PR 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX
PA (PEKE) PE CORP NY.
PI Venter JC, Adams M, Li PMD, Myers EW;
DR N-PSDB; ABL02781.
XX
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
PS Disclosure; SEQ ID NO 2826; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of.
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA
CC sequences (AB161840-AB16175) and the encoded proteins
CC (AB161737-AB162072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 621 AA;

Query Match 34.3%; Score 98; DB 22; Length 621;
Best Local Similarity 38.8%; Pred. No. 0.00042;
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RESULT 28
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ID AAG05518 standard; Protein; 274 AA.
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AC AAG05518;
XX
DT 17-OCT-2000 (first entry)
XX
XX Arabidopsis thaliana protein fragment SEQ ID NO: 1953.
DE
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.

PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
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PR 23-APR-1999; 99US-0130891.
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PR 01-JUN-1999; 99US-0137222.
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PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
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PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
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KM	xx	hydridisation assay; genetic mapping; gene expression control; promoter;	
OS	xx	termination sequence.	
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XX	KW	Protein identification; signal transduction pathway; metabolic pathway;
KM	hybridisation assay; genetic mapping; gene expression control; promoter;	
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XX	PD	06-SEP-2000.
XX	PF	25-FEB-2000; 2000EP-0301439.
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PR 27-AUG-1999; 99US-0151080.
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PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
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PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.
Query Match 33.9%; Score 97; DB 21; Length 291;
Best Local Similarity 38.6%; Pred. No. 0.00025;
Matches 17; Conservative 8; Mismatches 17; Indels 2; Gaps 2;
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Db 163 cpycfeylfdstidrlwrcghlmhlec-ekdnglhnyrcpcv 205
RESULT 33
AAG45123
ID AAG45123 standard; Protein; 291 AA.
XX
AC AAG45123;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 56609.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
PN EPI033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
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Query Match 33.9%; Score 97; DB 21; Length 291;
Best Local Similarity 38.6%;
Matches 17; Conservative 8; Mismatches 17; Indels 2; Gaps 2;

Oy 4 CTTCSDF-FDHSRDVAAADCCHTFLHLOCTIOSFEAFAPSSTCQC 46
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Db 163 cpvcfeylfdstrdlvtlrcgntcmhleec-tkdmglnhytccpcv 205

RESULT 34
ID AAB36644 standard; Protein: 405 AA.
AAB36644
AAC36644;
DT 14-MAR-2001 (first entry)
DE Oryza sativa var. nipponbare Tos17 protein sequence SEQ ID NO:2.
KW Rice; Tos17; ethylene synthesis; regulation; genetically modified plant;
increased side-root elongation; crown-water resistance;
improved fruit quality retention; improved flower quality retention.
OS Oryza sativa.
PN WO20071721-A1.
PD 30-NOV-2000.
PE 25-MAY-1999; 99WO-JP02732.
PR 25-MAY-1999; 99WO-JP02732.
PA (NORU) JAPAN MIN AGRIC FORESTRY & FISHERIES.
(BIOO-) BIO-ORIENTED TECHNOLOGY RES ADVANCEMENT.
PI Hirochika H, Abe K;
DR WPI: 2001-061354/07.
DR N-PSTD; AAC88125.

PT Ride-originated oligonucleotides encoding gene regulating ethylene
synthesis in plant, for producing transformants and genetically
modified plants with promoted side-root elongation and crown-water
resistance -
PS Claim 1; Fig 1; 35pp; Japanese.

The present invention describes oligonucleotides encoding a gene
producing a product capable of regulating ethylene synthesis. Also
described are: (1) a vector containing the oligonucleotides which can
be ligated to operate the control sequence; (2) a plant transformed
with the vector; and (3) a method for regulating ethylene synthesis
in a plant by introducing the oligonucleotides into it. The gene can
be used in producing transformants and genetically modified plants.
Plants produced by the method have increased side-root elongation,
crown-water resistance and improved fruit and flower quality retention.
The present sequence represents the specifically claimed Tos17 isolated
from Oryza sativa var. nipponbare, which has ethylene synthesis
regulating activity.

Sequence 405 AA:

Query Match 33.6%; Score 96; DB 22; Length 405;
Best Local Similarity 32.0%; Pred. No. 0.00048;
Matches 16; Conservative 12; Mismatches 20; Indels 2; Gaps 1

Oy 2 ALCITCSDFFDHSRDVAAADCCHTFLHLOCTIOSFEAFAPSSTCPCQRIQVG 51
| : | | | : : | : | | | : : : | : | : |
Db 329 avcciclciskfsmedirejpcnhvfhlcecvdkwlki-nalocplckadig 376

RESULT 35
ID AAE02618 standard; Protein: 493 AA.

XX	AAE02618;
AC	
DT	06-AUG-2001 (first entry)
XX	
DE	Human haematopoietic lineage switch (HLS)-5 #2.
XX	
KM	Human; haematopoietic lineage switch; HLS-5; tumour suppressor; cancer;
KW	ring finger B-box coiled-coil; RBCC; transcriptional regulator; tumour;
XX	acute myeloid leukaemia; drug screening; gene therapy; cytostatic.
OS	Homo sapiens.
PN	WO200138374-A1.
PD	
PP	31-MAY-2001.
XX	
PF	24-NOV-2000; 2000WO-AU01439.
XX	
PR	24-NOV-1999; 99AU-0004216.
XX	
PA	(UYWA-) UNIV WESTERN AUSTRALIA.
XX	
PI	Klinken SP, Lalonde J, Williams JH;
DR	WPI: 2001-367663/38.
DR	N-PSDB; AAD06781.
XX	
PT	Novel tumor suppressor gene, HLS-5, useful for regulating cell growth
PT	and treating a condition characterized by aberrant cell growth -
XX	
PS	Example; Page 108-109; 11pp; English.
XX	
CC	The present invention relates to a tumour suppressor gene, termed
CC	haematopoietic lineage switch (HLS)-5 and the protein it encodes.
CC	HLS-5 is a member of ring finger B-box coiled-coil (RBCC) family of
CC	transcriptional regulators. HLS-5 exhibits tumour suppressor activities
CC	in acute myeloid leukaemia and breast cancer cells. HLS-5 DNA, protein
CC	and its Ab are useful for treating a condition characterised by aberrant
CC	cell growth. HLS-5 DNA and protein are useful to identify a substance
CC	capable of affecting HLS-5 function, or capable of modulating cell
CC	growth. HLS-5 DNA and protein sequences are useful for diagnosing and
CC	treating tumours and cancers. HLS-5 polypeptides are also useful for
CC	screening drugs for treating diseases. HLS-5 DNA is used in gene
CC	therapy. The present amino acid sequence is human HLS-5.
XX	
SQ	Sequence 493 AA:

Query Match 33.4%; Score 95.5; DB 22; Length 493;
 Best Local Similarity 40.0%; Pred. No. 0.00068;
 Matches 18; Conservative 6; Mismatches 18; Indels 3; Gaps 1

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OY      3 LCTTCSDFFDHSRDVAAMDCGTHFLQLCIQSFEIAPSPFTCPQCR 47
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          || : | | | | | | | | | | | | | | | | | | | | |
Db      20 leavecydpf---rdavtlrcghnfcrgcswcgvsptcpvck 61
    
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RESULT 36
 AAE02617
 ID AAE02617 standard; Protein: 504 AA.
 AC AAE02617;
 DT 06-AUG-2001 (first entry)
 XX Human haematopoietic lineage switch (HLS)-5 #1.
 KM Human; haematopoietic lineage switch; HLS-5; tumour suppressor; cancer;
 KW ring finger B-box coiled-coil; RBCC; transcriptional regulator; tumour;
 XX acute myeloid leukaemia; drug screening; gene therapy; cytostatic.
 OS Homo sapiens.

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PR	29-MAR-1999	9905-0126785
PR	01-APR-1999	9905-0127262
PR	06-APR-1999	9905-0128234
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PR	16-APR-1999	9905-0129845
PR	19-APR-1999	9905-0130077
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PR 03-AUG-1999; 99US-0147038.
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PR 06-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
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PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
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PR 08-OCT-1999; 99US-0158232.

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PR 29-OCT-1999; 99US-0162142.

Query Match

Best Local Similarity 38.3%; Score 95; DB 21; Length 330;
Matches 18; Conservative 6; Mismatches 21; Indels 2; Gaps 1;

QY 4 CTTCSDFFHSRDVYAMDCGTFHLCLOSFETAPRTCPQCRIOV 50
Db 202 cswlddfeigteaklmpctkhfnsdcllpwlelhs--cpvcryql 246

RESULT 38
AAG29180
ID AAG29180 standard; Protein; 339 AA.

XX
AC AAG29180;

XX
DT 17-OCT-2000 (first entry)

XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 34674.

KW Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.

XX
OS Arabidopsis thaliana.

XX
PN EP1033405-A2.

XX
PD 06-SEP-2000.

XX
PF 25-FEB-2000; 2000EP-0301439.

XX
PR 25-FEB-1999; 99US-0121825.

XX
PR 05-MAR-1999; 99US-0123180.

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PR 09-MAR-1999; 99US-0123548.

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PR 23-MAR-1999; 99US-0125788.

XX
PR 25-MAR-1999; 99US-0126264.

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PR 29-MAR-1999; 99US-0126785.
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Query Match 33.2%; Score 95; DB 21; Length 339;
Best Local Similarity 38.3%; Pred. No. 0.00053;
Matches 18; Conservative 6; Mismatches 21; Indels 2; Gaps 1;

OY 4 CTICSDPFHSDVAAADCGHTFHLOCLIOSFEAPSRCTPOCKIOY 50
Db 211 cscvlddeigteakimpctchkfhsdcllpwlehs--cpcvcrqyl 255

RESULT 39

AAG29179

ID AAG29179 standard; Protein; 351 AA.

XX AAG29179;

DT 17-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SEQ ID NO: 34673.

XX
KM Protein identification; signal transduction pathway; metabolic pathway;
hybridisation assay; genetic mapping; gene expression control; promoter;
termination sequence.

OS Arabidopsis thaliana.

XX EPI033405-A2.

PD 06-SEP-2000.

PF 25-FEB-2000; 2000EP-0301439.

XX 25-FEB-1999; 9905-0121825.

PR 05-MAR-1999; 9905-0123180.

PR 09-MAR-1999; 9905-0123548.

PR 23-MAR-1999; 9905-0125788.

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PR 29-MAR-1999; 9905-0126785.

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PR 06-APR-1999; 9905-0128234.

PR 08-APR-1999; 9905-0128714.

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PR 15-JUL-1999; 9905-0144005.
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PR 20-JUL-1999; 9905-0144884.
PR 21-JUL-1999; 9905-0144814.
PR 21-JUL-1999; 9905-0145086.
PR 21-JUL-1999; 9905-0145088.
PR 22-JUL-1999; 9905-0145085.
PR 22-JUL-1999; 9905-0145087.

Query Match	Best Local Similarity	Score 95:	DB 21:	Length 351:	
Matches 18:	Conservative	6:	Mismatches 21:	Indels 2:	Gaps 1:
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Db 223	csvclddfeigreaklmpctkhfhsdcilpwlelhss--cpvcryql 267				
RESULT 40					
AA02003	AAU02003 standard; Protein; 51 AA.				
AC AAU02003;					
DT 29-AUG-2001 (first entry)					
DE Human secreted protein encoded by gene #33.					
DE xx					
KW Human secreted protein; autoimmune disorder; hyperproliferative disorder; cardiovascular disorder; cerebrovascular disorder; angiogenesis; nervous system disorder; bacterial infection; viral infection; fungal infection; ocular disorder; wound healing; tissue regeneration; epithelial cell proliferation; skin aging; chemotaxis; IgG Fc region.					
OS Homo sapiens.					
PN WO200123598-A1.					
PD 05-APR-2001.					
PF 26-SEP-2000; 2000WO-US26324.					
PR 27-SEP-1999; 99US-0155807.					
PA (HUMA-) HUMAN GENOME SCI INC.					
PI Komatsoulis G, Ruben SM, Rosen CA;					
DR WPI; 2001-281684/29.					
DR N-PSDB; AAS03914.					
PT Forty one nucleic acid molecules encoding human secreted proteins, useful in the prevention, treatment and diagnosis of cancer, immune disorders, cardiovascular disorders and neurological diseases -					
PS Disclosure: Page 507; 518pp; English.					
CC The sequence represents a human secreted protein encoded by a nucleic acid of the invention. Secreted proteins and their related nucleic acids can be used in the diagnosis of or susceptibility to a pathological condition by determining the presence or absence of a mutation in a nucleic acid or the presence or amount of expression of a secreted protein. The sequences are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. The antibodies to the polypeptides can also be used in alleviating symptoms associated with disorders and in diagnostic					

CC immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent
CC assays (ELISA). The disorders include autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
CC disorders e.g. cerebral ischemia, angiogenesis, nervous system disorders
CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and
CC fungi and ocular disorders e.g. corneal infection. The peptides can also
CC be used to aid wound healing and epithelial cell proliferation, to help
CC prevent skin ageing due to sunburn, to maintain organs before
CC transplantation, to regenerate tissues, in chemotaxis and as a food
CC additive or preservative to alter storage capabilities.
xx
SQ Sequence 51 AA;

Query Match 32.9%; Score 94; DB 22; Length 51;
Best Local Similarity 36.2%; Pred. No. 9.7e-05;
Matches 17; Conservative 7; Mismatches 21; Indels 2; Gaps 1;

QY 4 CTICDFFDHSRDVAMDCGHTPHLOCLIOSFETAPSPRCPCRIOV 50
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Search completed: September 4, 2002, 16:09:16
Job time: 8140 sec

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